

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Brigitte POPPENBERGER *et al.*

Serial No.: 10/588,595

Filed: August 8, 2006

For: METHOD FOR REGULATING PLANT  
GROWTH

Group Art Unit: 1638

Examiner: Kumar, Vinod

Atty. Dkt. No.: SONN:095US

Confirmation No.: 9533

**CERTIFICATE OF ELECTRONIC TRANSMISSION**

I hereby certify that this correspondence is being  
electronically filed with the United States Patent and  
Trademark Office via EFS Web on the date below:

June 27, 2007

Date

Mark B. Wilson

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.


In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to

be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/SONN:095US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



Mark B. Wilson  
Reg. No. 37,259  
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.  
600 Congress Avenue, Suite 2400  
Austin, Texas 78701  
(512) 474-5201

Date: June 27, 2007

Form PTO-1449 (modified)		Atty. Docket No.: SONN:095US	Serial No.: 10/588,595
List of Patents and Publications for Applicant's		Applicant: Brigitte POPPENBERGER <i>et al.</i>	
INFORMATION DISCLOSURE STATEMENT		Filing Date: August 8, 2006	Group: 1638
(Use several sheets if necessary)			
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1-4</i>	

### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2002/0073446	06/13/02	Neff <i>et al.</i>	800	278	11/14/01
	A2	2003/0199684	10/23/03	Hirochika <i>et al.</i>	536	23.6	05/27/03

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Language
	B1	EP 1209227	05/29/02	Europe	English
	B2	EP 1275719	01/15/03	Europe	English
	B3	WO 00/47715	08/17/00	WIPO	English
	B4	WO 97/35986	10/02/97	WIPO	English

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Altmann, "Molecular physiology of brassinosteroids revealed by the analysis of mutants," <i>Planta</i> , 208:1-11, 1999.
	C2	Bishop and Koncz, "Brassinosteroids and plant steroid hormone signaling," <i>Plant Cell</i> , S97-S110, 2002.
	C3	Bishop <i>et al.</i> , "The tomato DWARF enzyme catalyses C-6 oxidation in brassinosteroid biosynthesis," <i>Proc. Natl. Acad. Sci. USA</i> , 96:1761-1766, 1999.
	C4	Bishop <i>et al.</i> , "The Tomato Dwarf Gene Isolated by Heterologous Transposon Tagging Encodes the First Member of a New Cytochrome P450 Family," <i>Plant Cell</i> , 8:959-969, 1996.
	C5	Choe <i>et al.</i> , "The DWF4 gene of Arabidopsis encodes a cytochrome P450 that mediates multiple 22 $\alpha$ -hydroxylation steps in brassinosteroid biosynthesis," <i>Plant Cell</i> , 10:231-243, 1998.
	C6	Chono <i>et al.</i> , "A semidwarf phenotype of barley uzu results from a nucleotide substitution in the gene encoding a putative brassinosteroid receptor," <i>Plant Physiol.</i> , 133:1209-1219, 2003.

25781079.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)		Atty. Docket No.: SONN:09SUS	Serial No.: 10/588,595
List of Patents and Publications for Applicant's		Applicant: Brigitte POPPENBERGER <i>et al.</i>	
INFORMATION DISCLOSURE STATEMENT		Filing Date: August 8, 2006	Group: 1638
(Use several sheets if necessary)			
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1-4</i>	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C7	Chory <i>et al.</i> , "Phenotypic and Genetic Analysis of det2, a New Mutant That Affects Light-Regulated Seeding Development in Arabidopsis," <i>Plant Cell</i> , 3:445-459, 1991.
	C8	Clouse and Feldmann, "Molecular Genetics of brassinosteroid action," in: Brassinosteroids: Steroidal Plant Hormones (Sakurai <i>et al.</i> , eds.), Springer, Tokyo, pp. 163-190, 1999.
	C9	Clouse <i>et al.</i> , "A brassinosteroid-insensitive mutant in Arabidopsis thaliana exhibits multiple defects in growth and development," <i>Plant Physiol.</i> , 111:671-678, 1996.
	C10	Clouse <i>et al.</i> , "Brassinosteroids," The Arabidopsis Book, American Society of Plant Biologists, 2001.
	C11	Fraissinet-Tachet <i>et al.</i> , "Two tobacco genes induced by infection, elicitor and salicylic acid encode glucosyltransferases acting on phenylpropanoids and benzoic acid derivatives, including salicylic acid," <i>FEBS Lett.</i> , 437:319-323, 1998.
	C12	Genbank accession no.: AB070752, "Vigna angularis," dated April 2, 2002.
	C13	Genbank accession no.: AF346431 "Nicotiana tabacum," dated April 2, 2001.
	C14	Genbank accession no.: AP002523, "Oryza sativa," dated January 19, 2005.
	C15	Genbank accession no.: U32644, "Oryza sativa," dated November 25, 1996.
	C16	Genbank accession no.: X85138, "Solanum lycopersicum," dated November 15, 1996.
	C17	Genbank accession no.: Y18871, "Dorotheanthus bellidiformis" September 20, 1999.
	C18	Hong <i>et al.</i> , "A Rice Brassinosteroid-Deficient Mutant, ebisu dwarf (d2), Is Caused by a Loss of Function of a New Member of Cytochrome P450," <i>Plant Cell</i> , 15:2900-2910, 2003.
	C19	Horvath and Chua, "Identification of an immediate-early salicylic acid-inducible tobacco gene and characterization of induction by other compounds," <i>Plant Mol. Biol.</i> , 31:1061-1072, 1996.
	C20	Jackson <i>et al.</i> , "Over-expression of an Arabidopsis gene encoding a glucosyltransferase of indole-3-acetic acid: phenotypic characterisation of transgenic lines," <i>Plant J.</i> , 32:573-583, 2002.
	C21	Kang <i>et al.</i> , "Light and brassinosteroid signals are integrated via a dark-induced small G protein in etiolated seedling growth," <i>Cell</i> , 105:625-636, 2001.

25781079.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)		Atty. Docket No.: <b>SONN:095US</b>	Serial No.: <b>10/588,595</b>
List of Patents and Publications for Applicant's		Applicant: <b>Brigitte POPPENBERGER <i>et al.</i></b>	
INFORMATION DISCLOSURE STATEMENT		Filing Date: <b>August 8, 2006</b>	Group: <b>1638</b>
(Use several sheets if necessary)			
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1-4</i>	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C22	Li <i>et al.</i> , "A Role for Brassinosteroids in Light-Dependent Development of Arabidopsis," <i>Science</i> , 272:398-401, 1996.
	C23	Li <i>et al.</i> , "BIN2, a new brassinosteroid-insensitive locus in Arabidopsis," <i>Plant Physiol.</i> , 127:14-22, 2001.
	C24	Li <i>et al.</i> , "Phylogenetic analysis of the UDP-glycosyltransferase multigene family of Arabidopsis thaliana," <i>J. Biol. Chem.</i> , 276:4338-4343, 2001.
	C25	Lim <i>et al.</i> , "Evolution of substrate recognition across a multigene family of glycosyltransferases in Arabidopsis," <i>Glycobiol.</i> , 13:139-145, 2003.
	C26	Martin <i>et al.</i> , "Development of Transgenic Tobacco Harboring a Zeatin O-Glucosyltransferase Gene from Phaseolus," <i>In Vitro Cell Dev. Biol.</i> , 37:354-360, 2001.
	C27	Multani <i>et al.</i> , "Loss of an MDR Transporter in Compact Stalks of Maize br2 and Sorghum dw3 Mutants," <i>Science</i> , 302:81-84, 2003.
	C28	Mussig and Altmann, "Brassinosteroid signaling in plants," <i>Trends Endocrin. Metab.</i> , 12:398-402, 2001.
	C29	Mussig <i>et al.</i> , "Brassinosteroid-Regulated Gene Expression," <i>Plant Physiology</i> , 129:1241-1251, 2002.
	C30	Noguchi <i>et al.</i> , "Biosynthetic pathways of brassinolide in Arabidopsis," <i>Plant Physiol.</i> , 124:201-209, 2000.
	C31	Ross <i>et al.</i> , "Higher plant glycosyltransferases," <i>Genome Biol.</i> , 2:3004.1-3004.6, 2001.
	C32	Sakamoto <i>et al.</i> , "Genetic manipulation of gibberellin metabolism in transgenic rice," <i>Nat. Biotech.</i> , 21:909-913, 2003.
	C33	Sasaki <i>et al.</i> , "A mutant gibberellin-synthesis gene in rice: New insight into the rice variant that helped to avert famine over thirty years ago," <i>Nature</i> , 416:701-702, 2002.
	C34	Shimada <i>et al.</i> , "Brassinosteroid-6-oxidases from Arabidopsis and tomato catalyze multiple C-6 oxidations in brassinosteroid biosynthesis," <i>Plant Physiol.</i> , 126:770-779, 2001.
	C35	Suzuki <i>et al.</i> , "Metabolism of Castasterone and Brassinolide in Mung Bean Explant," <i>Phytochemistry</i> , 33:1361-1367, 1993.

25781079.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)		Atty. Docket No.: SONN:095US	Serial No.: 10/588,595
List of Patents and Publications for Applicant's  INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		Applicant: Brigitte POPPENBERGER <i>et al.</i>	
		Filing Date: August 8, 2006	Group: 1638
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1-4</i>	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C36	Szekeres <i>et al.</i> , "Brassinosteroids rescue the deficiency of CYP90, a cytochrome P450, controlling cell elongation and de-etiolation in Arabidopsis," <i>Cell</i> , 85:171-182, 1996.
	C37	Terada <i>et al.</i> , "Efficient gene targeting by homologous recombination in rice," <i>Nat. Biotech.</i> , 20:1030-1034, 2003.
	C38	Vogt <i>et al.</i> , "Cloning and expression of a cDNA encoding betanidin 5-O-glucosyltransferase, a betanidin- and flavonoid-specific enzyme with high homology to inducible glucosyltransferases from the Solanaceae," <i>Plant J.</i> , 19:509-519, 1999.
	C39	Zullo <i>et al.</i> , "Brassinosteroid phytohormones- structure, bioactivity and applications," <i>Braz. J. Plant Physiol.</i> , 14:143-181, 2002.

25781079.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.